Project Baseline Summary Report

Data Source: **EM CDB** Report Number: **GEN-01b**

Operations/Field Office: **Ohio** Print Date: **3/9/2000**

Site Summary Level: **West Valley Demonstration Project** HQ ID: **0250**

Project **OH-WV-02 / Site Transition, Decommissioning, & Project Completion**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

PURPOSE:
The West Valley Demonstration Project (WVDP) Act (Public Law PL 96-368) states that the Secretary of the Department of Energy (DOE) shall carry out a high level radioactive waste management demonstration project at the Western New York Service Center (Center) in West Valley, New York, for the purpose of demonstrating solidification techniques which can be used for preparing high level radioactive waste (HLW) for disposal. The Act stipulates that:

(1) The Secretary shall solidify, in a form suitable for transportation and disposal, the HLW at the Center by vitrification or by such other technology which the Secretary determines to be most effective for solidification.
(2) The Secretary shall develop containers suitable for the permanent disposal on the HLW solidified at the Center.
(3) The Secretary shall, as soon as feasible, transport, in accordance with applicable law, the waste solidified at the Center to an appropriate Federal repository for permanent disposal.
(4) The Secretary shall, in accordance with applicable licensing requirements, dispose of low level radioactive waste (LLW), and transuranic waste (TRU) produced by solidification of HLW under the Project.
(5) The Secretary shall decontaminate and decommission (D&D) - (A) the tanks and other facilities of the Center in which the HLW solidified under the project was stored, (B) the facilities used in the solidification of the waste, and (C) any material and hardware used in connection with the project, in accordance with such requirements as the Commission (NRC) may prescribe.

The scope of PBS OH-WV-02; Site Transition, Decommissioning and Project Completion is required to fulfill the requirements of the WVDP Act as outlined above in items three (3), four (4), and five (5).

Until all provisions of the WVDP Act are fulfilled, the Project is committed to continuing safe storage and removal of the transuranic (TRU) waste, and the safe storage and waste management of the mixed low-level waste (MLLW) and low level waste (LLW) . The joint EIS currently being prepared by DOE and New York State supports selection of the site management strategy and gives environmental input for NYSERDA and DOE decisions for future site closure or management activities. DOE and NYSERDA will identify the selected strategy in a Record of Decision (ROD) and in New York State Environmental Policy Act Findings, respectively. If necessary, additional National Environmental Policy or New York State Environmental Quality Review Act documents will be prepared for DOE and NYSERDA actions not specifically addressed in this document.

In FY2000 the Final Environmental Impact Statement (FEIS) entitled Completion of the West Valley Demonstration Project act and Closure or Long-Term Management of Facilities at the Western New York Nuclear Service Center will be published formalizing final decommissioning and decontamination of the site and its related Project wastes. Between FY1999 and FY2005, independent of the FEIS/ROD, the Project's main focus transitions from vitrification operations to deactivation, initial decommissioning of Project facilities, and initial activities for HLW and TRU waste disposal and shipments. After FY2005, the main focus of activities within this PBS will be governed by the decisions and direction delineated by the FEIS/ROD and prescribed NRC D&D criteria.

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Currently a draft EIS (DEIS) has been issued evaluating five alternatives for site closure and ultimate return to New York State. The DEIS was prepared in accordance with the National Environmental Policy Act and the New York State Environmental Quality Review Act. The DEIS addresses final dispostiion options for LLW Class A and Class B/C generated as a result of the Project. To date, public opinion has favored the longest and most costly alternative.

SCOPE:
This PBS includes all activities required to transition the site from HLW vitrification operations through deactivation and decommissioning and final decontamination (D&D) of Project facilities. Once all requirements of the WVDP Act have been satisfied and the site is considered complete with respect to the FEIS/ROD to be issued in FY2000, it is the intent of DOE to return the WVDP site to NYSERDA.

A Preferred Alternative (PA) is scheduled to be issued in June 1999, and the Final Environmental Impact Statement (FEIS) is scheduled to be issued in May 2000 with the Record of Decision (ROD) to subsequently be published in June 2000. Preliminary planning for the implementation of the requirements of the ROD after June 2000 will begin with the issuance of the PA in June 1999. These preliminary plans will continue to be refined as the development of the FEIS and the ROD matures over the twelve month period. Until the ROD is issued formally, the Project will deactivate and perform initial decommissioning of Project related facilities to the extent possible and manage the resultant Project waste as necessary. This is expected to be the focus of Project activities through FY2005 at which point full ROD implementation can be expected.

Activities planned in FY2001 that this PBS will support include:
- Monitoring and Compliance to manage the radioactive groundwater plume
- FEIS/ROD baseline planning to determine the extent of DOE liability at the site
- LLW Storage and Shipping Operations
- Final Design / Construction of the Remote Handled Waste Facility (RHWF) for TRU/HAW to provide capacity to package and ship waste
- Head End Cell Equipment Installation / Upgrades to provide capacity to retrieve waste
- Head End Cell Fuel Hull Debris Retrieval

The scope includes monitoring and maintenance of the HLW storage cell containing the canisters, until such time that a federal repository (or alternate interim storage) is identified, and preparations can commence to construct a load out facility. As long as the HLW canisters remain in on-site storage, the Project will be responsible for maintaining the existing aging facilities. Maintenance of this 30 year old facility is expensive and its associated long term mortgage costs will continue to increase since the facility it near the end of its intended original design life. The Project is prohibited from being able to fully complete its mission per the Act and fully D&D Project facilities until a federal repository for the HLW is identified (or alternative storage option).

The processing of Head End Cell (HEC) high activity waste (HAW) fuel hulls and debris will continue in FY 2001. This HAW consists of highly radioactive fuel hulls and contaminated processing equipment remaining from former commercial reprocessing. The long-range cleanup plans for the cells include radiation surveys, shield window refurbishment, procurement of equipment necessary for cleanup of the cells, cleaning of the Scrap Removal Room (SRR), and initial removal of the laboratory wastes from the Process Mechanical Cell (PMC). These efforts will focus on upgrading the 30 year old facility subsystems and equipment and will establish the ground work for future D&D work in the HEC. These wastes are highly radioactive and will be stored in the WVDP Chemical Process Cell (CPC) until a final destination is identified by DOE, at which time plans can be

Project Description Narratives

implemented to ship the waste off-site for final disposition.

In addition to continuing safe storage of the vitrified HLW canisters, WVDP will continue to conduct safe storage of the HEC HAW fuel hulls debris, transuranic (TRU) waste, mixed low level waste (MLLW) and low level waste (LLW) until removal to an interim storage location or final disposition actions are implemented and completed per the requirements of the ROD. WVDP monitoring, regulatory compliance, public safety, worker safety, the safety of the environment, facility stabilization and non radioactive waste operations is included in this PBS.

The Remote Handled Waste Facility (RHWF) will provide the capability to process (characterize, cut-up as necessary, package for shipment and disposal) radioactive RH-TRU waste which was generated as by-products of WVDP Act operations. The waste will vary from low level material to waste highly contaminated with beta-gamma and/or alpha emitting nuclides.

TECHNICAL APPROACH:
Final disposition of Project LLW will be determined by the FEIS/ROD. The DEIS was developed and published for review internally by DOE and NYSERDA and was provided to the general public for review in FY1996. Comments generated from stakeholders were solicited and are still currently being addressed with DOE and NYSERDA. A Citizen Task Force (CTF) was appointed by DOE and NYSERDA in January 1997. In July 1998 the CTF issued their recommendation to DOE and NYSERDA, which favored one of the longest and most costly Project completion alternatives considered in the study. The Preferred Alterative (PA) under development by DOE and NYSERDA is currently scheduled for issuance in June 1999. The Final Environmental Impact Statement (FEIS) is scheduled for issuance in May 2000 and the Record of Decision (ROD) is subsequently scheduled for publication in June 2000.

Until the ROD is issued, the Project is committed to completing its responsibilities per the Act. Independent of the ROD, there are a number of deactivation and initial decommissioning efforts that must take place in order to be ready for full ROD implementation in addition to WVDP Act requirements to dispose of the HLW and TRU wastes..

The Remote Handling Waste Facility (RHWF) allows the Project the capability to handle and manage Project wastes, from high activity LLW to HAW/TRU. The RHWF will be utilized to process, characterize, cut-up as necessary, and package for shipment and disposal radioactive wastes currently stored on site, and those expected to be generated as a result of deactivation and decommissioning of Project facilities.

The technical approach for HLW canister storage varies substantively depending upon decisions made regarding the final disposition of the HLW canisters. The Project assumes that they will eventually be shipped off site to a federal repository yet to be identified as the Act stipulates. WVDP is ready to construct the load out facility necessary to support this effort once adequate funding levels are supported. HLW shipping casks need to be developed for this effort as well as determining a shipping corridor and obtaining affected state(s) agreements and an approved transportation plan.

The current WVDP HLW storage facility will continue to be maintained at a high mortgage cost. The aging 30 year old facility does contain some risk with potential for a catastrophic event with international complication in the densely populated Great Lakes Economic Region. Isolation of the Chemcial Process Cell (CPC) where the HLW canisters are stored is a potential alternative, which requires engineering resources, equipment procurement and construction. This will reduce the mortgage costs to some extent but will not have any effect on the overall risk and potential for a catastrophic event.

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WVDP monitoring, regulatory compliance, public safety, worker safety, the safety of the environment , facility stabilization and non radioactive waste operations is included in this project baseline summary (PBS). The technical approach for these activities has been established and is updated as required. WVDP will continue to conduct safe storage of the HLW canisters, HEC HAW fuel hulls debris, transuranic (TRU) waste, mixed low level waste (MLLW) and low level waste (LLW) until removal to an interim storage location or final disposition actions and activities are identified and completed as the Act stipulates.

Project Status in FY 2006:

The FEIS/ROD will have been issued in FY2000 and baseline planning efforts will be ready to accomodate full implementation of resultant activities. Independent of the FEIS/ROD the Project will have deactivated and initially decommissioned the following facilities:

- HLW Sludge Mobilization System
- HLW Vitrification Facility
- Integrated Radwaste Treatment System
- HLW Storage Tanks
- HLW Tank Farm Ventilation
- HLW Sample Analytical Lab

Additionally, assuming a TRU and HLW receiver site has been identified in FY2004 by DOE, the following activities will be in progress:

- Action to ship TRU Project generated waste offsite
- D&D of areas in the former Process Building utilized by the Project
- Construction of the Load Out Facility to accommodate HLW canister shipout
- TRU/HAW processing through the RHWF to prepare waste for offsite shipping and disposal.

Monitoring , regulatory compliance, public safety, worker safety, the safety of the environment , facility stabilization and non radioactive waste operations are expected to be on-going in accordance with the minimum safe site initiative and WVDP's commitment to the Integrated Safety Management System (ISMS) which was the first program of its nature to be validated by DOE-OH in November, 1998.

Post-2006 Project Scope:

The work scope past FY2006 for this PBS will focus on implementing the requirements of the FEIS/ROD which will have been published in FY2000. These activities will include final deactivation, stabilization, decontamination and decommissioning of all Project related facilities. Additionally, HLW Canister shipout, RHWF Operations, and TRU Project waste shipout will continue until completed.

Monitoring , regulatory compliance, public safety, worker safety, the safety of the environment , facility stabilization and non radioactive waste operations will continue to be supported in accordance with the minimum safe site initiative and WVDP's commitment to the Integrated Safety Management System (ISMS).

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Project End State

This PBS will be considered completed once all provisions of the WVDP Act are satisfied per the FEIS/ROD scheduled to be published in FY2000 and the site is ultimately returned to New York State. All Project work scope will be completed and the site will have been fully D&D according to NRC criteria.

Cost Baseline Comments:

The level of confidence associated with the near-term budget / funds needed for this PBS is high due to its basis in historical data associated with efforts for EIS support, groundwater monitoring, RHWF design efforts and HEC scopes of work, as well as compliance and waste management activities that have been on-going since the Project's inception in 1982. The extent and magnitude of activities required to support project completion activities as directed by the FEIS/ROD scheduled to be published in FY2000 will be better identified once planning and baselining efforts to address this scope of work can be performed. Current long-term cost projections are based upon the publicly favored alternative from the draft EIS (DEIS).

The Project`s ability to identify levels of contingency are currently affected by indeterminate work scopes associated with Project completion. The most indeterminate scopes include:

(1) The issue of "how clean is clean" as it pertains to Project facilities, including the HLW tanks;

(2) The extent and complexity of dispositioning LLW; and

(3) The resolution of responsibility for cost sharing between DOE and NYSERDA .

Safety & Health Hazards:

The major risk / hazard for this PBS is the associated with handling and management of the Project's HLW / HAW. Although vitrification operations substantially reduced the immediate risk associated with having liquid HLW in underground carbon steel storage tanks that have exceeded their design life, considerable risk remains in the form of highly radioactive waste now contained in a solid form which is being stored in an aging facility that is increasingly expensive to maintain. Vitrification processing did minimize waste volumes and did minimize the potential catastrophic consequences if a HLW tank leak would have occurred, however, until a federal repository (or interim storage) is identified and the Project can begin shipping off-site its HLW as delineated by the WVDP Act, the hazards associated with storage of 24M curies of solidified HLW remain on site.

Safety & Health Work Performance:

Waste management activities for HLW canisters, TRU waste and LLW have been safely performed. Project operations relating to the safe management of the contaminated goundwater plume and facility stabilization activities are also safely performed on a routine basis.

Head End Cell (HEC) was released for work in August 1998. Long range planning and initial characterization work has been performed through February 1999. The WVDP is committed to complete upgrades required for retrieval of the HEC in FY 2001 and begin operations.

Alternative studies, value engineering and preliminary design work for the RHWF have been performed. Remote Handled Waste Facilities would be

Project Description Narratives

constructed and operable on an earlier schedule making workforce transition more favorable than the Target or Decrement level schedules, however, an accelerated completion of these systems is possible at funding above the Planning level of $115.2M.

This PBS has experienced moderate cost savings and favorable schedule performance as of 2Q99. Work is progressing as planned, and completion of the PBS is expected at this time (without having a formally published FEIS/ROD) to be in FY2015 as long as funding support is adequately provided to maintain the schedule commitments.

In 3Q99, the WVDP voluntarily implemented the Integrated Safety Management System (ISMS) despite not being a Defense Nuclear Facility Safety Board site. WVDP was validated by a DOE team in 1Q99, the first Ohio Field Office project to be validated. The DOE validation team confirmed that WVDP has implemented the core values and guiding principles of DOE Policy P450.4, as well as implementation of the tenets of Enhanced Work Planning.

PBS Comments:

Project #OH-WV-02 encompasses Site Transition, Decontamination and Project Completion activities for an site aggressively pursuing; 1) the primary mission of the WVDP Act: vitrification of liquid HLW and High activity residuals from the HLW tanks, 2) other significant activities toward the completion of the Act: the removal of Project related wastes from the West Valley Site (i.e., HLW canisters, TRU waste), support of the Project Completion/Site Closure EIS process and safe site operations. The balance of the Act, i.e., the disposition of the Project related facilities and LLW issues from possible future activities, will be planned when a preferred alternative in the EIS has been identified. The ongoing Project Completion/Site Closure EIS/ROD process will help to define the extent of the DOE`s responsibility for other post vitrification activities: deactivation, D&D of project related facilities, LLW issues, possible turnover activities, etc. The ultimate facility and site configuration needs to be determined and agreement between stakeholders is needed prior to proceeding with the final phase. This direction is expected by May 2000. LLW disposition issues represent the largest possibility for risk to the success of the Draft 2006 Plan because of the extent of the range of activity which may be required (do nothing/walk away to extensive site remediation/green field). There is limited funding available within the Draft 2006 Plan profile to address project related LLW issues.
The DOE-West Valley Project Office is committed to the deployment of the Segmented Gate System (SGS) for contaminated soil separation in FY1999, as proposed to the DOE-Ohio Field Office. The following conditions must be accomplished prior to the implementation of the SGS technology;
1) Completion of a contaminated soil classification to determine the estimated amount of soil for potential separation.
2) Establishment of U.S. Nuclear Regulatory Commission (NRC) release criteria.
3) A completed evaluation of the data from WVDP`s SGS demonstration conducted in FY1997. This evaluation will determine the cost effectiveness of the system, using both gamma and beta detectors.
4) Evaluation of the cost savings when comparing the funds provided by the Advanced Technology Deployment (ATP) Program to the program deliverables.

Baseline Validation Narrative:

Validation of FY1998 through FY2000 budget data was conducted by a team of individuals from EM-30, FM-20 and the Ohio Field Office. This team compared the scopes of the work to the respective budgets defined in the Cost Account Planning Reports (CAPRs) and found theestimates to be reasonable. The Validation was performed for each of the four Project Baseline Summary's and rolled up to encompass the WVDP work scope and

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costs as delineated by the WVDP (Act Public Law 96-368), as well as the West Valley Spent Nuclear Fuel Program (PBS-OH-WV-03: Spent Nuclear Fuel.)

WVDP will request a validation of the FY2001 and near-term out-year budgets during FY1999. At that time it is expected that the work scope and respective budgets in the out-years will be generated to support Project Completion activities to the extent possible based upon funding guidance and work scope activities currently being executed independent of the ROD/FEIS and required per the scope delineated by the WVDP Act (Public Law 96-368).

General PBS Information

Project Validated? Yes **Date Validated:** 10/29/1998

Has Headquarters reviewed and approved project? Yes

Date Project was Added: 12/1/1997

Baseline Submission Date: 7/8/1999

FEDPLAN Project? Yes

Drivers:

CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
N	Y	N	Y	N	Y	Y	Y

Project Identification Information

DOE Project Manager: Joseph J. May

DOE Project Manager Phone Number: 716-942-2161

DOE Project Manager Fax Number: 716-942-4703

DOE Project Manager e-mail address: jmay@wv.doe.gov

Is this a High Visibility Project (Y/N): Y

Planning Section

Baseline Costs (in thousands of dollars)

1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006

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Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	554,747	837,476	1,392,223	18,917	18,287	17,185	25,961	30,753	29,553	32,395	56,430	88,299	91,235	93,500	96,480
PBS Baseline (constant 1999 dollars)	497,421	610,400	1,107,821	18,917	18,287	17,185	25,961	30,753	28,776	30,714	52,095	79,373	79,856	79,687	80,065
PBS EM Baseline (current year dollars)	554,747	837,476	1,392,223	18,917	18,287	17,185	25,961	30,753	29,553	32,395	56,430	88,299	91,235	93,500	96,480
PBS EM Baseline (constant 1999 dollars)	497,421	610,400	1,107,821	18,917	18,287	17,185	25,961	30,753	28,776	30,714	52,095	79,373	79,856	79,687	80,065

	2007	2008	2009	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
PBS Baseline (current year dollars)	95,780	95,060	94,330	93,580	458,726	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	77,395	74,793	72,268	69,808	316,136	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	95,780	95,060	94,330	93,580	458,726	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	77,395	74,793	72,268	69,808	316,136	0	0	0	0	0	0	0	0	0	0	0

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%	0.00%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%	2.70%

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2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.70%	2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 9/30/2005

Current Projected End Date of Project: 9/30/2015

Explanation of Project Completion Date Difference (if applicable):

The WVDP submittal for the June 1998 Paths to Closure document was based upon a set of assumptions formulated in the September, 1997 time frame. The purpose of the June, 1998 Paths to Closure document was to highlight the potential benefits to DOE-HQ of timely decisions and budget support at adequate levels to perform aggressive completion of the majority of DOE's responsibilities at the WVDP.

The 1999 Paths to Closure update reflects the current status of assumptions and decisions identified as essential for success of the original plan. Many assumptions were not realized and key decisions still remain, therefore the lifecycle cost and schedule has been appropriately updated. The revised lifecycle cost profile recognizes the significant challenges in competing for limited funding since funding has not been appropriated as planned and assumed in the original Paths to Closure document. The revised lifecycle profile also recognizes the challenges of convincing out of state stakeholders to accept WVDP radioactive waste, i.e. HLW and TRU. Additionally, public opinion generated as a result of publication of the Draft Environmental Impact Statement (DEIS) in 1996, strongly supports the two most expensive and longest duration project completion alternatives. It is anticipated that dispositioning of Project facilities may involve a potentially longer DOE presence than planned in the original Paths to Closure document. The WVDP is working with the Citizen Task Force as the Preferred Alternative is being developed by DOE and NYS to accommodate as many stakeholder recommendations as possible.

Project completion activities, their associated baseline and costs, will be defined after the FEIS/ROD is issued, currently scheduled for FY2000. The key issue to be determined by the ROD is the final requirement for D&D of the HLW tanks and facilities used during the HLW solidification Project. The D&D of these facilities is mandated by the WVDP Act to be done in accordance with criteria yet to be prescribed by the NRC.

Independent of the ROD, there is still significant waste management work scope DOE is responsible for accomplishing at the Project per the WVDP Act (Public Law 96-368). The Project is focusing on completing these ROD independent activities within the 2006 Paths to Closure timeframe while acknowledging that there is a high potential for DOE involvement at the WVDP after FY2006.

The revised end date for this project is FY2015.

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars): 482,882 **Actual 1997 Cost:** 18,287 **Actual 1998 Cost:** 25,961

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Project Reconciliation

Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	438,634	**Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):**	11,843
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	450,477		

Project Cost Changes

	Cost Adjustments	Reconciliation Narratives
Cost Change Due to Scope Deletions (-):		
Cost Reductions Due to Efficiencies (-):		
Cost Associated with New Scope (+):		
Cost Growth Associated with Scope Previously Reported (+):		
Cost Reductions Due to Science & Technology Efficiencies (-):		
Subtotal:	450,477	
Additional Amount to Reconcile (+):	621,242	$8348k Uncosted / ($507k) 1997 Actual Cost Escalation to 1998 dollars / $613402k Replanned B/L
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	**1,071,719**	

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Begin Disposition of Vit Facility/Tank Farm per NRC Criteria	OHWV-02 CE2.12		10/1/2002		10/1/2002						
Begin Removal of WV HLW Canisters to Interim Storage	OHWV-O2b CE 2.8		4/1/2002		4/1/2002						
Begin Site Decommissioning per NRC Criteria	OHWV-02 CE2.10		10/1/2001		10/1/2001						
Begin WV TRU Shipments	OHWV-02c		10/1/2003		10/1/2003						
Complete Removal of WV HLW Canisters	OHWV-02d		6/30/2005		6/30/2005						
Complete WV TRU Shipments	OHWV-02e CE 2.11		12/30/2004		12/30/2004						
DOE-HQ Approval of WV Final EIS	OHWV-02 CE2.2		4/30/2000		4/30/2000						

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
DOE-HQ Approval of WV Supplement to Draft EIS	OHWV-02 CE2.1		7/31/1999		7/31/1999						
Issue ROD for Project Completion	1294		5/31/2000	5/31/2000	5/30/2000		Y			Y	
DOE-HQ ProvidesTRU Shipping Casks, Permits, Agreements & Transportation Plan	OHWV-02 CE2.7		7/1/2000		7/1/2000						
Issue Preferred Alternative/Final EIS	OHWV02-99A 1296		4/30/2000		6/1/1999						
Implement ROD Activities Pertaining to WVDP Act	OHWV-02a		9/1/2000		9/1/2000						
NRC Approve Decommissioning Plan	1298		9/30/2001		9/30/2001						
WVDP Project Mission Complete	OHWV-02f		9/30/2006		9/30/2006						
Return WV Site Operational Responsibility to NYS	OHWV-02f		9/30/2006		9/30/2006						
Select WV-TRU Receiver Site	OHWV-02 CE2.6		6/30/2000		6/30/2000						
Ship offsite up to 15k cuft Class A LLW for disposal	1302		9/30/1999		9/30/1999						
Develop a Prefered Alternative for the site EIS with input from NYSERDA and the CTF.			6/1/1999						Y		
Ship offsite 425 m3 Low-Level Waste (LLW) for disposal.	OHWV02-99B (3108)		9/30/1999						Y		
Develop a Prefered Alternative for the site EIS with input from NYSERDA and the CTF.			6/1/1999						Y		
Complete Removal of Contaminated Equipment/Piping from Vitrification Facility	3727		9/30/2006								
Completed D&D of Vitrification Facility and HLW Tank Farm			9/30/2010								
Complete HLW Load-out Facility Construction	3729		9/30/2005								
WV-HLW Shipping Readiness Review/ DOE Approval	3730		9/30/2006								
DOE HQ Identify HLW Receiver Site	3731		10/1/2002							Y	Y
Initiate Procurement of HLW Casks/Receiver Site	3732		10/1/2002								

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Mods/Agreements											
Completed Procurement of HLW Casks/Receiver Site Mods/Agreements	3733		9/30/2006								
Begin HLW Canister Shipment	3734		10/1/2006								Y
Complete HLW Canister Shipment	3735		9/30/2010								Y
Complete Final Disposition of PB/VF/TF per ROD	3736		3/31/2015								
Complete Equipment Upgrades for HEC Debris Removal	3737		9/30/2002								
Complete Head-End Cell Debris Removal	3738		9/30/2004								
Complete Removal of Process Building Retrievable Contamination	3739		9/30/2005								
Complete Process Building Decontamination Before Final Dispositioning	3740		9/30/2010								
Complete Treatment /packaging of VF/PB decon RH-TRU/HAW	3741		9/30/2010								
Complete Design/Construction of Remote Handled Waste Facility	3742		9/30/2004								
Complete Treatment /packaging of CPC/WSA RH-TRU/HAW	3743		9/30/2012								
Complete D&D of Remote Handled Waste Facility	3744		9/30/2014								
Receive TRU Waste Acceptance Specifications	3745		9/30/2004								Y
DOE HQ Identify TRU Receiver Site	3746		9/30/2003							Y	Y
Complete Preparations for TRU Waste Shipments	3747		9/30/2005								Y
Begin WV TRU Shipment to Receiver Site	3748		10/1/2005								Y
Complete WV TRU Shipment to Receiver Site	3749		9/30/2013								Y

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Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Closeout Documentation for Project Completion	3750		9/30/2015								
Complete D&D of Balance of Project Facilities per ROD/NRC	3751		9/30/2013								
Complete LLW Shipments	3752		9/30/2014								Y
Project End PBS-OH-WV-02; Site Transition, Decontamination and Project Completion	3753		9/30/2015								
Begin PBS-OH-WV-02 Format	9000		10/1/1997								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Begin Disposition of Vit Facility/Tank Farm per NRC Criteria	OHWV-02 CE2.12									Y	
Begin Removal of WV HLW Canisters to Interim Storage	OHWV-O2b CE 2.8									Y	
Begin Site Decommissioning per NRC Criteria	OHWV-02 CE2.10									Y	
Begin WV TRU Shipments	OHWV-02c									Y	
Complete Removal of WV HLW Canisters	OHWV-02d									Y	
Complete WV TRU Shipments	OHWV-02e CE 2.11									Y	
DOE-HQ Approval of WV Final EIS	OHWV-02 CE2.2									Y	
DOE-HQ Approval of WV Supplement to Draft EIS	OHWV-02 CE2.1									Y	

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Issue ROD for Project Completion	1294	Y	Y				1	5	5		Issue ROD for Project Completion: Final dispositioning status for Waste Management Areas identified in the EIS is determined by DOE-HQ.
DOE-HQ ProvidesTRU Shipping Casks, Permits, Agreements & Transportation Plan	OHWV-02 CE2.7									Y	
Issue Preferred Alternative/Final EIS	OHWV02-99A 1296										Preferred Alternative/Final EIS; develop and issue for public comment the Preferred alternative as part of the Final EIS for Project Completion.
Implement ROD Activities Pertaining to WVDP Act	OHWV-02a									Y	
NRC Approve Decommissioning Plan	1298	Y	Y				1	4	2		NRC Approve Decommissioning Plan: After ROD determines Project completion alternative for Waste Management Areas, the NRC will issue the final approved D&D plan, allowing site to assess workscopes to achieve final end state of project facilities
WVDP Project Mission Complete	OHWV-02f									Y	
Return WV Site Operational Responsibility to NYS	OHWV-02f									Y	
Select WV-TRU Receiver Site	OHWV-02 CE2.6									Y	
Ship offsite up to 15k cuft Class A LLW for disposal	1302										Revised FY1999 WVNS performance based commitment to ship 15,000 cubic feet of Class a LLW for disposal.(reduced from 25,000 as part of FY99 budget

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
											reduction from $110.1M to $107.3M)
Develop a Prefered Alternative for the site EIS with input from NYSERDA and the CTF.											FY99 Ohio Field Office Performance Plan Assessment Key Success Factor D.1 Objective: Execute Project Baselines and Meet Critical Milestones Performance Measure #20 DOE-WV (Indicated as a Critical Closure Path MS in the 1999 Management Commitment Docu
Ship offsite 425 m3 Low-Level Waste (LLW) for disposal.	OHWV02-99B (3108)										FY99 Ohio Field Office Performance Plan Assessment Criteria; Key Success Factor D.1; Complete Regulatory Milestones and Other Appropriate Requirements: Objective #23: Ship Offsite up to 15,000 cubic feet of Class A LLW for Disposal (15,000 Cubic Feet =
Develop a Prefered Alternative for the site EIS with input from NYSERDA and the CTF.										Y	Duplicates milestone WV 3107
Complete Removal of Contaminated Equipment/Piping from Vitrification Facility	3727										Complete Removal of Contaminated Equipment/Piping from VF: After system deactivation, completion of contaminated Vitrification System equipment, vessels and piping removal and mterial containerized, in preparation for final facility D&D to NRC criteria
Completed D&D of Vitrification Facility and HLW Tank Farm											Completed D&D of Vitrification Facility and HLW Tank Farm:

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
											Decontamination to NRC D&D Criteria, of the Vitrification facility and HLW tank farm facilities utilized during HLW Storage and Treatment is completed. This precedes final dispositioning of facil
Complete HLW Load-out Facility Construction	3729	Y									Complete HLW Load-out Facility Construction: Facility required for the final decontamination and transfer of the HLW Canisters to HLW Shipping Casks, is complete and operational.
WV-HLW Shipping Readiness Review/ DOE Approval	3730										WV-HLW Shipping Readiness Review/ DOE Approval; Full scale operational readiness review of HLW shipping program, operator training qualifications, certifications, procedures, and authorization to proceed from DOE-HQ is received.
DOE HQ Identify HLW Receiver Site	3731		Y				1	1	5		DOE HQ Identify HLW Receiver Site: Decision point to commit to offsite interim storage for WV HLW Canisters prior to availability of Federal Repository. HLW removal is required to complete on site DOE commitments for HLW disposal per WVDP Act.
Initiate Procurement of HLW Casks/Receiver Site Mods/Agreements	3732										Initiate Procurement of HLW Casks/Receiver Site Mods/Agreements: Project management of all permits, transportation corridor arrangements, safety analyses, cask development,

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
											testing and fabrication, receiver site modifications, public relations and docum
Completed Procurement of HLW Casks/Receiver Site Mods/Agreements	3733	Y									Completed Procurement of HLW Casks/Receiver Site Mods/Agreements: Project management of all permits, transportation corridor arrangements, safety analyses, cask development, testing and fabrication, receiver site modifications, public relations and docum
Begin HLW Canister Shipment	3734										Begin HLW Canister Shipment: Initiate shipment of WV HLW disposal ready canisters to offsite interim storage facility.
Complete HLW Canister Shipment	3735	Y									Complete HLW Canister Shipment: Complete shipment of WV HLW disposal ready canisters to offsite interim storage facility.
Complete Final Disposition of PB/VF/TF per ROD	3736	Y									Complete Final Disposition of PB/VF/TF per ROD; After the initial contaminated equipment/systems are removed, and the decontamination of facilities according to NRC criteria has been completed, disposition the Process Building, Vitrification Facility and
Complete Equipment Upgrades for HEC Debris Removal	3737	Y									Complete Equipment Upgrades for HEC Debris Removal: Complete equipment and system upgrades to allow remote retrieval of HAW, generated during former commercial

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
											SNF reprocessing activities , for packaging and disposal. Required to be complete in order to
Complete Head-End Cell Debris Removal	3738	Y									Complete Head-End Cell Debris Removal: Complete Removal and containerization of fractured spent fuel assemblies and debris, in preparation for disposal. This precedes final Process Building D&D efforts per NRC criteria.
Complete Removal of Process Building Retrievable Contamination	3739										Complete Removal of Process Building Retrievable Contamination: Contaminated system equipment vessels and piping to be removed and containerized in preparation for final facility D&D to NRC criteria. This pertains to Process Building areas, utilized by
Complete Process Building Decontamination Before Final Dispositioning	3740	Y									Complete Process Building Decontamination Before Final Dispositioning: Decontamination to NRC D&D Criteria, of Process Building areas utilized by the Project during HLW Treatment. Decontamination required to be complete prior to dispositioning Process b
Complete Treatment /packaging of VF/PB decon RH-TRU/HAW	3741										Complete Treatment /packaging of VF/PB decon RH-TRU/HAW: Preparation of RH-TRU and HAW, generated during Vitrification Facility and Process Building D&D activities, for offsite disposal is

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
											complete.
Complete Design/Construction of Remote Handled Waste Facility	3742	Y									Complete Design/Construction of Remote Handled Waste Facility: The Design/construction of the facility which provides the capability to characterize, size reduce, and prepare / package RH TRU/HAW for disposal, is complete and operational.
Complete Treatment /packaging of CPC/WSA RH-TRU/HAW	3743										Complete Treatment /packaging of CPC/WSA RH-TRU/HAW; Preparation of RH-TRU and HAW, generated during previous Project D&D activities which enabled the reuse of existing facilities, for offsite disposal is completed. Wastes were generated by removal
Complete D&D of Remote Handled Waste Facility	3744										Complete D&D of Remote Handled Waste Facility: After termination of TRU/HAW treatment and packaging operations, the D&D of the Remote Handled Waste Facility, according to NRC criteria is completed.
Receive TRU Waste Acceptance Specifications	3745										Receive TRU Waste Acceptance Specifications: Waste Disposal Facility Acceptance Criteria for WV-TRU Wastes are required to be available prior to TRU waste disposal preparations (packaging and waste record documentation)
DOE HQ Identify TRU Receiver Site	3746		Y				2	5	5		DOE HQ Identify TRU Receiver Site: Decision point to commit to offsite storage for WV RH

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
											TRU and HAW. Required to complete on site DOE commitments for TRU disposal per WVDP Act.
Complete Preparations for TRU Waste Shipments	3747										Complete Preparations for TRU Waste Shipments: Receipt of TRU Transportation Casks, completion of development of approved transportation corridors, waste handling training and qualifications for personnel, and approval to proceed with offsite TRU shipment
Begin WV TRU Shipment to Receiver Site	3748										Begin WV TRU Shipment to Receiver Site: Begin shipment of WV TRU waste for offsite dispositioning
Complete WV TRU Shipment to Receiver Site	3749										Complete WV TRU Shipment to Receiver Site: complete shipment of WV TRU waste for offsite dispositioning
Closeout Documentation for Project Completion	3750										Closeout Documentation for Project Completion: Verification and documentation that D&D criteria have been satisfied, and all provisions of the WVDP Act and the resulting regulatory agreements and orders are satisfied.
Complete D&D of Balance of Project Facilities per ROD/NRC	3751										Complete D&D of Balance of Project Facilities per ROD/NRC; Project areas, outside of VF/TF/PB, which require decontamination and decommissioning according to the NRC criteria (i.e. Waste Water

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Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critial Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
											Treatment Facility, lagoons, contact size reduction areas, HL
Complete LLW Shipments	3752										Complete LLW Shipments: Offsite disposal of project generated LLW are completed.
Project End PBS-OH-WV-02; Site Transition, Decontamination and Project Completion	3753				Y	Y					Project End PBS-OH-WV-02; Site Transition, Decontamination and Project Completion: PBS-OH-WV-02 is terminated after final project documentation is completed.
Begin PBS-OH-WV-02 Format	9000			Y							Begin PBS-OH-WV-02 Format: WVDP work performed between Oct 1, 1981 and Sept 30,1997,was not performed in PBS format. PBS format initiated by Al Alm Draft Ten Year Plan Guidance 6/10/1996. Therefore, PBS start date is designated as Oct 1, 1997.

Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planne 200
HLW														
Canisters	NC	106.00	0.00	106.00	0.00		0.00	81.00	15.00	5.00	5.00			
TRU														
Storage	M3							528.00	532.00	536.00	540.00	544.00	548.00	548.(
MLLW														
Treatment	M3	161.11	0.00	161.11	0.00		0.00	0.69	2.56	15.72	12.05	63.64	63.64	2.8

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Performance Measure Metrics

Category/Subcategory	Units	1997-2006 Total	2007-2070 Total	1997-2070 Total	Actual Pre-1997	Planned 1997	Actual 1997	Planned 1998	Planned 1999	Planned 2000	Planned 2001	Planned 2002	Planned 2003	Planne 20(
MLLW														
Storage	M3							148.54	153.04	133.20	122.05	62.43	2.81	
MLLW														
On-Site Disp.	M3	0.00	0.00	0.00	0.00		0.00							
LLW														
Storage	M3							16,672.00	16,615.00	16,558.00	16,501.00	26,501.00	36,501.00	46,501.(
LLW														
On-Site Disp.	M3	0.00	0.00	0.00	0.00		0.00							
LLW														
Comm. Disp.	M3	1,381.00	0.00	1,381.00	0.00		0.00	106.00	425.00	425.00	425.00			

Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
HLW													
Canisters	NC												
TRU													
Storage	M3	548.00	548.00	480.00	412.00	344.00	276.00	208.00					
MLLW													
Treatment	M3	2.81											
MLLW													
Storage	M3												
MLLW													
On-Site Disp.	M3												

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Category/Subcategory	Units	Planned 2004	Planned 2005	Planned 2006	Planned 2007	Planned 2008	Planned 2009	Planned 2010	Planned 2011 - 2015	Planned 2016 - 2020	Planned 2021 - 2025	Planned 2026 - 2030	Planned 2031 - 2035
LLW													
Storage	M3	46,501.00	56,501.00	66,501.00	76,501.00	86,501.00	96,501.00	106,501.00	156,501.00	156,501.00	156,501.00	156,501.00	156,501.00
LLW													
On-Site Disp.	M3												
LLW													
Comm. Disp.	M3												

Category/Subcategory	Units	Planned 2036 - 2040	Planned 2041 - 2045	Planned 2046 - 2050	Planned 2051 - 2055	Planned 2056 - 2060	Planned 2061 - 2035	Planned 2066 - 2070	Exceptions	Lifecycle Total
HLW										
Canisters	NC									103.00
TRU										
Storage	M3									
MLLW										
Treatment	M3									204.86
MLLW										
Storage	M3									
MLLW										
On-Site Disp.	M3									1.00
LLW										
Storage	M3	156,501.00	156,501.00	156,501.00	156,501.00	156,501.00	156,501.00	156,501.00		
LLW										
On-Site Disp.	M3									106.00
LLW										
Comm. Disp.	M3								4,542.00	6,402.00

Technology Needs

Site Need Code: OH-WV902

Site Need Name: Decontamination of High-Level Waste (HLW) Canisters (WVDP-2-99)

Focus Area Work Package ID: WT-07-01 **Focus Area Work Package:** Acceptance Criteria and Canister Storage

Focus Area: TFA **Agree with Technology Link:** Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate
Laser Surface Cleaning		
Laser Decontamination and Recycle of Metals		
Steam Vacuum Cleaning		
Strippable Coatings and Fixatives		

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	02144: HLW-1 - Tanks	Y	N

Site Need Code: OH-WV-901

Site Need Name: Characterization of Low-Level Transuranic Waste (WVDP-1-99)

Focus Area Work Package ID: Pu-02-Stabilization **Focus Area Work Package:** Miscellanous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA **Agree with Technology Link:** N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate
Nondestructive Waste Assay Using Combined Thermal Epithermal Neutron Interrogation		
Characterization of Remote-Handled Waste Drums using High Speed Neutron Detectors		

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Technology Needs

Characterization of Remote - Handled Waste Drums using Multi Detector Analysis System

Characterization of Remote-Handled Drums using Radio-Frequency Quadrupole (RFQ) Based Active Neutron Interrogation

Nondestructive Waste Assay Using Gamma-Ray Active and Passive Computed Tomography

NDA of Boxes Containing TRU Waste

Characterization - Crate Surrogates

Solutions for TRU Waste Streams without Disposition Options

Solutions for TRU Waste Streams without Disposition Options

Related CCP Milestones	Related Waste Streams	Agree?	Change?
	00654: TRU-2 - RH Debris	Y	N
	01461: TRU-4 - Combined TRU Waste (Disposition Ready)	Y	N
	00655: TRU-3 - CH Debris	Y	N
	00635: LLW-1 - Miscellaneous Debris	Y	N
	00645: LLW-6 - Stabilized LLW-Drum Cell Waste	Y	N
	00643: -	Y	N

Site Need Code: OH-WV-904

Site Need Name: High Level Waste Tank Closure

Focus Area Work Package ID: Pu-02-Stabilization

Focus Area Work Package: Miscellanous Pu Residue Stabilization and Disposition

Focus Area: PLUTOFA

Agree with Technology Link: N

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate

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Technology Needs

Site Need Code: OH-WV-908

Site Need Name: Decontamination of High-Level Waste Contaminated Equipment

Focus Area Work Package ID: WT-05-01 **Focus Area Work Package:** Tank Closure

Focus Area: TFA **Agree with Technology Link:** Y

Benefits (Cost, Risk Reduction, Both): Cost

Technologies	Cost Savings (in thousands of dollars)	Range of Estimate